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Form PTO-1000	Serial Number: 09/973,270	Docket PD-89418A
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Applicant DONALD C. D. CHANG ET. AL	
(Use several sheets if necessary)	Filing Date October 5, 2001	Group Not Known

U.S. PATENT DOCUMENTS

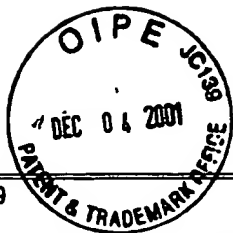
	Document Number	Date	Name	Class	Sub Class
LW	2,470,787	05/24/49	Nosker	342	12
LW	3,384,891	05/21/68	Anderson	343	6.5
LW	3,544,995	12/01/70	Bottenberg et. al	342	46
LW	3,720,953	03/13/73	Ajioka	343	771
LW	4,161,730	07/17/79	Anderson		
LW	4,161,734	07/17/79	Anderson	343	100
LW	4,359,733	11/16/82	O'Neill	343	6.5
LW	4,613,864	9/23/86	Hofgen	343	357
LW	4,635,063	01/06/87	Chang et. al	342	380
LW	4,819,227	4/ 4 /89	Rosen	370	75
LW	4,897,661	1/30/90	Hiraiwa	342	457
LW	4,979,170	12/18/90	Gilhousen et al.	370	104.1
LW	4,994,809	2/19/91	Yung et. al	342	108
LW	5,006,855	4/9/91	Braff	342	357
LW	5,077,562	12/31/91	Chang et. al	342	368
LW	5,099,245	3/24/92	Sagey	342	357
LW	5,111,209	5/5/92	Toriyama	342	357
LW	5,126,748	6/30/92	Ames et. al	342	353
LW	5,218,619	6/8/93	Dent	375	1
LW	5,233,626	8/3/93	Ames	375	1
LW	5,278,863	1/11/94	Briskman	375	1
LW	5,319,673	6/7/94	Briskman	375	1
LW	5,387,916	2/7/95	Cohn	342	44
LW	5,410,314	4/25/95	Frush et. al	342	26
LW	5,444,450	8/22/95	Olds et. al	342	357
LW	5,485,485	1/16/96	Briskman et. al	375	200
LW	5,525,995	6/11/96	Benner	342	90
LW	5,550,809	8/27/96	Bottomley et. al	370	18

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Name	Class	Sub Class
LW	EP 0335 558	4/10/89	McCaughan et. al		
LW	JP 3-291584	12/20/91	Toyota		
LW	JP 09026328	01/28/97	Tokimec Inc.		
LW	JP 2-28580		Mitsubishi Electric Corp/ (Yamazaki)		
LW	JP 4-27887		Corresponding to USP 5,111,209 (copy provided)		

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Examiner		Date Considered	12/21/04
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Form PTO-1449	Serial Number: 09/973,270	Docket PD-89418A
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Applicant DONALD C. D. CHANG ET. AL	
(Use several sheets if necessary)	Filing Date October 5, 2001	Group Not Known

U.S. PATENT DOCUMENTS

		Document Number	Date	Name	Class	Sub Class
LW		5,555,257	9/10/96	Dent	370	95.1
LW		5,572,216	11/05/96	Weinberg et al.	342	357
LW		5,592,471	1/7/97	Briskman	455	52.3
LW		5,594,941	1/14/97	Dent	455	13.4
LW		5,612,701	03/18/97	Diekelman	342	354
LW		5,644,572	7/1/97	Olds et. al	370	324
LW		5,739,785	3/14/98	Allison et. al	342	357
LW		5,790,070	08/04/98	Natarajan et al.	342	354
LW		5,810,284	9/22/98	Hibbs et. al	244	13
LW		5,856,804	01/05/99	Turcotte et al.	342	371
LW		5,864,579	1/26/99	Briskman	375	200
LW		5,903,549	05/11/99	Von der Embse et. al	370	310
LW		5,909,460	6/1/99	Dent	375	200
LW		5,920,284	7/6/99	Victor	342	357.01
LW		5,944,770	8/31/99	Enge et. al	701	707
LW		5,945,948	8/31/99	Buford et. al	342	457
LW		5,949,766	09/07/99	Ibanez-Meier et.al	370	316
LW		5,969,674	10/19/99	Von der Embse et. al	342	357.17
LW		5,973,647	10/26/99	Barrett et. al	343	713
LW		6,111,542	08/29/00	Day et al.	342	359
LW		6,138,012	10/24/00	Krutz et. al	455	427
LW		6,147,658	11/14/00	Higashi et. al	343	853
LW		6,151,308	11/21/00	Ibanez-Meier et al.	370	316

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Name	Class	Sub Class
LW		JP 07146995A	06/06/95	Nippondenso Co. Ltd. (Fumiaki)		
LW		JP 08015405A	01/19/96	NEC Corp. (Toshiaki)		
LW		JP 09113600A	05/02/97	Aqueous Res.KK (Hiroki)		
LW		JP 10090391A	04/10/98	Sharp Corp. (Koichi et. al)		
LW		GB 2306 827A	05/07/97	Intl. Mobile Satellite Org		
LW		GB 2271 902A	10/20/93	Caterpillar		

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

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Form PTO-1449	Serial Number: 09/973,270	Doc No: PD-89418
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(Use several sheets if necessary)	Filing Date October 5, 2001	Group Not Known

U.S. PATENT DOCUMENTS

	Document Number	Date	Name	Class	Sub Class
LW	5,917,447	06/29/99	Wang et. al	342	383
LW	5,017,927	05/21/91	Agrawal et. al	342	371

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Name	Class	Sub Class
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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

LW		Teles J. et. al, "Overview of TDRSS" Orbit Determination and Analysis, PSD Meeting, Cospar Technical Panel on Satellite Dynamics, 13 th Cospar Scientific Assembly, Hamburg, Germany, July 11-21, 1994, Advances in Space Research, pp. 67-76
LW		Bricker, P. et. al, "Integrated Receiver for NASA Tracking and Data Relay Satellite System", MILCOM 90, A New Era, 1990 IEEE Military Communications Conference, Monterey, CA USA, Sept. 30-Oct. 3, 1990, pp. 1-5.
LW		Dunham, J. B. et. al, "Onboard Orbit Estimation with Tracking and Data Relay Satellite System Data", Journal of Guidance, Control and Dynamics, July-August 1983, USA, col. 6 NR.4, pp. 292-301.
LW		Bethke, K.H., "A Novel Noncooperative Near-Range Radar Network For Traffic Guidance and Control on Airport Surfaces, IEEE Transactions on Control Systems Technology, vol. 1, no. 3, Sept. 1993.
LW		Doc 9524 FANS/4-WP/76, International Civil Aviation Organization, Special Committee on Future Air Navigation Systems, Fourth Meeting, Montreal, 2-20, May 1988, Report, pp. 3.2B-2 & 3.2B-3.
LW		Suzuki, R. et. al, "Mobile TDM/TDMA System With Active Array Antenna", Global Telecommunications Conference, 1991; Globecom '91, vol. 3, Dec. 2-5, 1991, pp. 1569-1573
LW		Chan, K. K., et. al, "A CIRCULARLY POLARIZED WAVEGUIDE ARRAY FOR LEO SATELLITE COMMUNICATIONS", Antennas and Propagation Society, 1999, IEEE International Symposium, vol. 1, 11-16 July 1999, pp.154-157.
LW		Oodo, M., et. al, "ONBOARD DBF ANTENNA FOR STRATOSPHERIC PLATFORM", 2000 IEEE International Conference on Phased Array Systems and Technology, Proceedings, May 21-25, 2000, pp. 125-128.
LW		Yokosuka Research Park, "THE FIRST STRATOSPHERIC PLATFORM SYSTEMS WORKSHOP", May 12-13, 1999, pp. 1-216.
LW		Chiba, Isamu et. al, "Digital Beam Forming (DBF) Antenna System for Mobile Communications", IEEE AES Systems Magazine, Sept. 1997, pp. 31-41.
LW		Miura, Ryu et. al, "A DBF Self-Beam Steering Array Antenna for Mobile Satellite Applications Using Beam-Space Maximal-Ratio Combination", IEEE Trans. On Vehicular Technology, vol. 48, no. 3, May 1999, pp. 665-675.
LW		Sato, Kazuo et al., "Development And Field Experiments of Phased Array Antenna For Land Vehicle Satellite Communications", IEEE Antennas and Propagation Society International Symposium, 1992, July 1992, pp. 1073-1076.
LW		Sakakibara, Kunio et. al, "A Two-Beam Slotted Leaky Waveguide Array for Mobile Reception of Dual-Polarization DBS", IEEE Transactions on Vehicular Technology, vol. 48, no. 1, Jan. 1999, pp. 1-7
Examiner		Date Considered